

The listing of claims will replace all prior versions, and listings, of claims in this application:

Listing of Claims:

Claim 1 (currently amended): A wireless transmitter comprising:

an antenna;

a transmitter signal generator unit generating a signal to be transmitted at an output and having a control input, a control signal applied to said control input controlling at least one of a frequency band and of a power level of said signal to be transmitted;

said output of said generator unit being operationally connected to said antenna;

an audio signal/control signal decoder unit, said decoder unit generating said control signal at an output of said decoder unit in response to an encoded audio signal at an input of said decoder unit;

said output of said decoder unit being operationally connected to said control input of said generator unit;

said generator unit comprising a modulator unit with a carrier frequency signal input and an output, the output of the modulator unit being operationally connected to said output of said generator unit and having a modulation input, said modulation input being operationally connected to said input for said encoded audio signal.

Claim 2 (original): The transmitter according to claim 1, said input of said decoder unit being operationally connected to at least one audio signal input tab of said wireless transmitter.

Claim 3 (original): The transmitter of claim 2, said input tab being connectable to at least one external audio signal source.

Claim 4 (previously presented): The transmitter of claim 3, wherein said audio signal source is at least one of

a microphone;
an audio player; and
an internet connection device.

Claim 5 (canceled)

Claim 6 (previously presented): The transmitter of claim 1, wherein said generator unit generating said signal to be transmitted as an amplitude-modulated signal, a frequency-modulated signal, a phase-modulated signal or a modulated pulse signal.

Claim 7 (previously presented): The transmitter of claim 1, further comprising at least one microphone, an output thereof being operationally connected to said input of said decoder unit.

Claim 8 (previously presented): The transmitter of claim 1, wherein said encoded audio signal is a dual-tone multi-frequency signal.

Claim 9 (previously presented): The transmitter of claim 1, wherein said decoder receives an encoded audio signal in a frequency range of 100 Hz to 20 kHz (both limits included).

Claim 10 (previously presented): The transmitter of claim 1, wherein said frequency band comprises more than one carrier frequency of said signal to be transmitted.

Claim 11 (previously presented): The transmitter of claim 10, further comprising a manually operable selection unit with an output operationally connected to a control input of a carrier frequency generator unit, said control input controlling selection of the carrier frequency of said signal to be transmitted, out of said more than one carrier frequency.

Claim 12 (previously presented): The transmitter of claim 1, wherein said encoded audio signal defining more than one carrier frequency in said frequency band.

Claim 13 (currently amended): A hearing system comprising an ear device with an output electrical to mechanical converter and with a wireless receiver, the output thereof being operationally connected to said electrical to mechanical converter; a wireless transmitter according to one of the claims 1 to 4 and 6 to 12, a signal transmitted from said wireless transmitter being received and demodulated at said ear device and acting on said electrical to mechanical converter.

Claim 14 (canceled)